

**CLAIMS**

1. A process for the preparation of an enzyme-containing granulate suitable for use in  
5 an animal feed, the process comprising obtaining a dry enzyme containing granulate  
and coating the granulate with a polyolefin.

2. A process according to claim 1, wherein the polyolefin is applied at 0.1 - 20% (weight  
polyolefin per weight of the granules), preferably at 0.2 - 10%, more preferably at 0.4 -  
10 5%.

3. A process according to claims 1 or 2, wherein the polyolefin is polyethylene and/or  
polypropylene.

4. A process according to any one of claims 1 - 3, wherein the polyolefin has a melting  
15 traject ending at a temperature ranging from 100 to 200 °C (border values included),  
preferably from 120 to 180 °C.

5. A process according to any one of claims 1 - 4, wherein the polyolefin is applied to  
20 the granule as a dispersion of polyolefin particles in a suitable solvent.

6. A process according to claim 5, wherein the solvent is water.

7. A process according to claim 5 or 6, wherein the polyolefin particles have a size  
25 ranging from 10 to 1000 nm (border values included), preferably from 10 to 500 nm,  
more preferably from 10 to 200 nm.

8. A process according to any one of claims 5 - 7, wherein the polyolefin dispersion  
contains 10 to 60 % (w/w) polyolefin, preferably 20 to 40 % polyolefin.

9. A process according to any one of claims 5 - 8, wherein the polyolefin dispersion is a  
dispersion of polyolefins containing acidic groups which are stabilized by an amine.

10. A process according to claim 9, wherein the acidic groups are carboxylic groups.

11. A process according to claim 9 or 10, wherein the amine is ammonia.

12. A process according to any one of claims 1 - 11, wherein the enzyme is a phytase,  
5 xylanase,  $\beta$ -glucanase, protease, phospholipase, amylase and/or glucose oxidase.

13. An enzyme-containing granulate coated with a polyolefin obtainable by a process according to any one of claims 1 to 12.

10 14. A process for the preparation of an animal feed, or a premix or precursor to an animal feed, said process comprising mixing a granulate according to claim 13 with one or more animal feed substances or ingredients.

15 15. The process according to claim 14, wherein the mixture of feed substance(s) and granulate is treated with steam, pelletised and cooled.

16. A feed composition comprising a granulate according to claim 13.

20 17. A process for promoting the growth of an animal, the process comprising feeding an animal a diet that comprises either a granulate according to claim 13 or a composition according to claim 16.

25 18. Use of a granulate according to claim 13 in an animal feed or as a component in an animal diet.

19. Use of a granulate according to claim 13 to improve the pelleting stability of the enzyme.